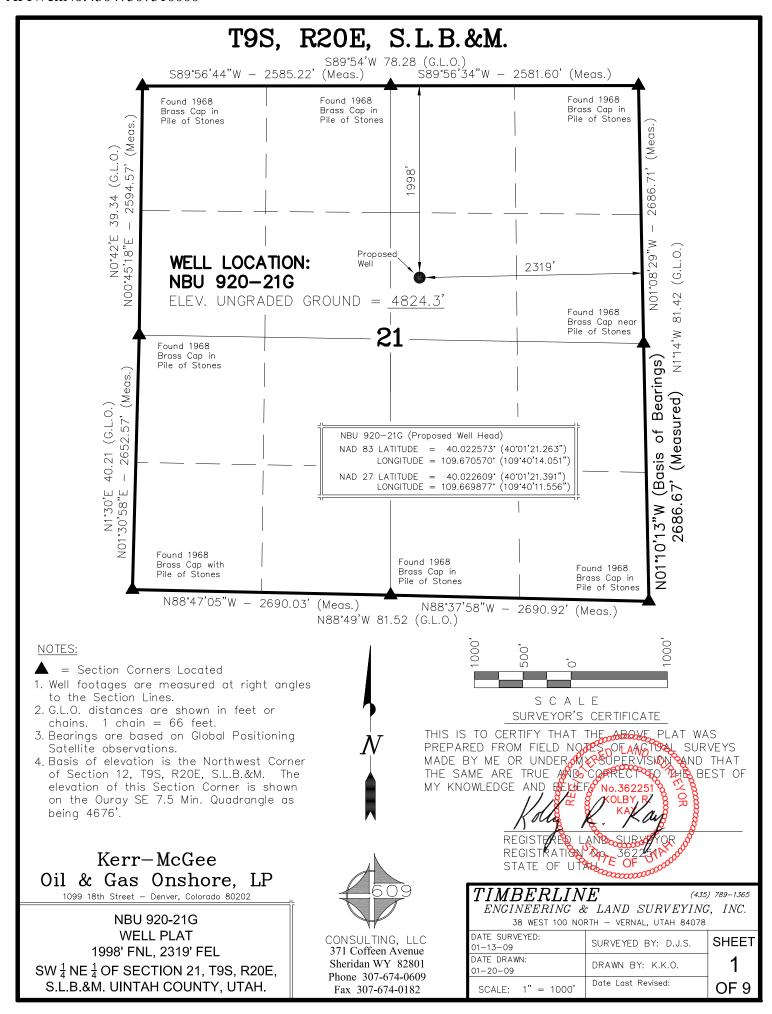
		SOURCES MINING		FOR				
APPLI	CATION FOR	PERMIT TO DRILL	-		1. WELL NAME and	NUMBER NBU 920-21G		
2. TYPE OF WORK DRILL NEW WELL	REENTER P8	A WELL DEEPE	N WELL		3. FIELD OR WILDCAT NATURAL BUTTES			
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO					5. UNIT or COMMU	NITIZATION AGRE	EMENT NAME	
6. NAME OF OPERATOR		GAS ONSHORE, L.P.			7. OPERATOR PHO			
8. ADDRESS OF OPERATOR		enver, CO, 80217			9. OPERATOR E-MA		.com	
10. MINERAL LEASE NUMBER		11. MINERAL OWNE	RSHIP		12. SURFACE OWN			
(FEDERAL, INDIAN, OR STATE) UTU 0144869		FEDERAL (IND	IAN 🗍 STATE (FEE (FEDERAL NI	DIAN 📵 STATE (FEE (II)	
13. NAME OF SURFACE OWNER (if box 12	= 'fee')				14. SURFACE OWN	ER PHONE (if box 1	2 = 'fee')	
15. ADDRESS OF SURFACE OWNER (if box	12 = 'fee')				16. SURFACE OWN	ER E-MAIL (if box 1	.2 = 'fee')	
17. INDIAN ALLOTTEE OR TRIBE NAME		18. INTEND TO COM		TON FROM	19. SLANT			
(if box 12 = 'INDIAN') UTE TRIBE			commingling Applicat	ion) NO	VERTICAL DIF	RECTIONAL (H	ORIZONTAL 🗍	
20. LOCATION OF WELL	FO	OTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	1998 FI	NL 2319 FEL	SWNE	21	9.0 S	20.0 E	S	
Top of Uppermost Producing Zone	1998 FI	NL 2319 FEL	SWNE	21	9.0 S	20.0 E	S	
At Total Depth	1998 FI	NL 2319 FEL	SWNE	21	9.0 S	20.0 E	S	
21. COUNTY UINTAH		22. DISTANCE TO N	EAREST LEASE LIN 1998	E (Feet)	23. NUMBER OF AC	RES IN DRILLING	JNIT	
		25. DISTANCE TO NO (Applied For Drilling		AME POOL	26. PROPOSED DEPTH MD: 10744 TVD: 10744			
27. ELEVATION - GROUND LEVEL 4824		28. BOND NUMBER	WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496			
		Aī	TTACHMENTS		1			
VERIFY THE FOLLOWING	ARE ATTACH	ED IN ACCORDAN	CE WITH THE U	TAH OIL AND	GAS CONSERVATI	ON GENERAL RU	ILES	
₩ WELL PLAT OR MAP PREPARED BY	LICENSED SUR	VEYOR OR ENGINEER	Р СОМ	PLETE DRILLING	G PLAN			
AFFIDAVIT OF STATUS OF SURFACE	OWNER AGRE	EMENT (IF FEE SURF	ACE) FORM	4 5. IF OPERATO	R IS OTHER THAN T	HE LEASE OWNER		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)				OGRAPHICAL MA	Р			
NAME Kathy Schneebeck-Dulnoan	TITL	E Staff Regulatory Analy	yst	PHONE 720 92	9-6007			
SIGNATURE		EMAIL Kathy.S	chneebeckDulnoan@aı	nadarko.com				
API NUMBER ASSIGNED 43047507510000	АРРЯ	ROVAL		Bol	ogill			
				Permi	it Manager			

API Well No: 43047507510000 Received: 9/17/2009

	Proposed Hole, Casing, and Cement									
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)						
Prod	7.875	4.5	0	10744						
Pipe	Grade	Length	Weight							
	Grade HCP-110 LT&C	1144	11.6							
	Grade I-80 Buttress	9600	11.6							

API Well No: 43047507510000 Received: 9/17/2009

	Proposed Hole, Casing, and Cement								
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)					
Surf	12.25	9.625	0	2700					
Pipe	Grade	Length	Weight						
	Grade J-55 LT&C	2700	36.0						



NBU 920-21G

Surface: 1,998' FNL 2,319' FEL (SW/4NE/4)

Sec. 21 T9S R20E

Uintah, Utah Mineral Lease: UTU 0144869

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	Resource
Uinta Green River	0 – Surface	
Birds Nest	1,745' 1,979'	Water
Mahogany	2,490'	Water
Wasatch	5,184'	Gas
Mesaverde	8,571'	Gas
MVU2	9,541'	Gas
MVL1	10,021'	Gas
TD	10,744'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program.

Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,744' TD, approximately equals 6,694 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,330 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

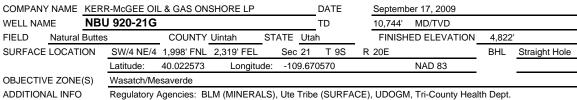
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

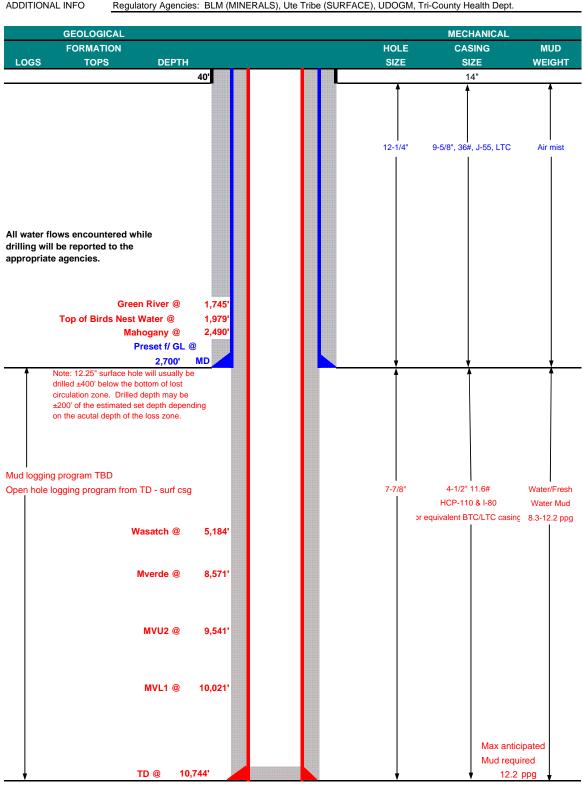
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM







KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

								DESIGN FACTORS		
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	(0-40'							
								3,520	2,020	453,000
SURFACE	9-5/8"	0	to	2700	36.00	J-55	LTC	0.79*	1.60	4.66
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9600	11.60	I-80	BTC	1.75	1.04	2.74
								10,690	8,650	279,000
		9600	to	10744	11.60	HCP-110	LTC	2.40	1.27	25.84

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.07

- 1) Max Anticipated Surf. Press.(MASP) (Surf Csg) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac grad x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD (0.22 psi/ft-partial evac gradient x TD) 12.2

ppg)

12.2 ppg)

(Burst Assumptions: TD =

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4,330 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD =

0.62 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,694 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
		+ 2% CaCl + 0.25 pps flocele				
		Premium cmt + 2% CaCl				
SURFACE		NOTE: If well will circulate water to sur	face, optic	n 2 will be	utilized	
Option 2 LEAD	2,200'	Prem cmt + 16% Gel + 10 pps gilsonite	250	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOC				
TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	4,684'	Premium Lite II + 0.25 pps celloflake +	450	40%	11.00	3.38
		5 pps gilsonite + 10% gel '+ 1% Retarder				
TAIL	6,060'	50/50 Poz/G + 10% salt + 2% gel	1480	40%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.

PRODUCTION

Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

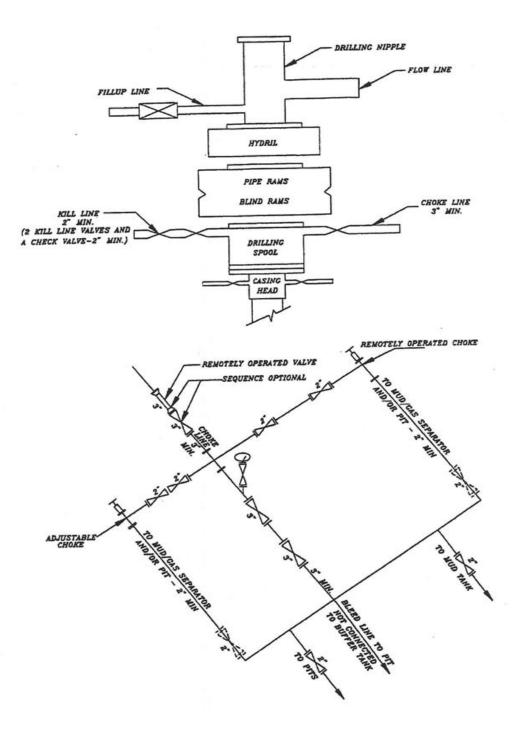
Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

DRILLING ENGINEER:		DATE:	
	John Huycke / Emile Goodwin	-	
DRILLING SUPERINTENDENT:		DATE:	
	John Merkel / Lovel Young	-	

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A NBU 920-21G



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL PAD LEGEND

CONSTRUCT DIVERSION DITCH (AS NÉEDED)

- 4830 ⁻

WELL LOCATION

EXISTING CONTOURS (2' INTERVAL) PROPOSED CONTOURS (2' INTERVAL)

WELL PAD NBU 920-21G QUANTITIES

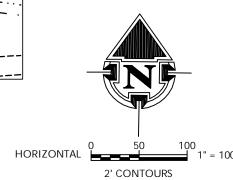
EXISTING GRADE @ LOC. STAKE = 4824.3' FINISHED GRADE ELEVATION = 4822.0' CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 18,318 C.Y. TOTAL FILL FOR WELL PAD = 8,785 C.Y. TOPSOIL @ 6" DEPTH = 3,068 C.Y. EXCESS MATERIAL = 9,533C.Y. TOTAL DISTURBANCE = 3.80 ACRES SHRINKAGE FACTOR = 1.10 SWELL FACTOR = 1.00 RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 28,730 BARRELS RESERVE PIT VOLUME +/- 7,720 CY BACKFLOW PIT CAPACITY (2' OF FREEBOARD) +/- 9.490 BARRELS **BACKFLOW PIT VOLUME** +/- 2,660 CY

S.L.B.&M., UINTAH COUNTY, UTAH

Phone 307-674-0609 Fax 307-674-0182

j	Scale:	1"=100'	Date:	2/20/09	SHEET NO:		Ī
1	REVISED:			BY DATE	2	2 OF 9	

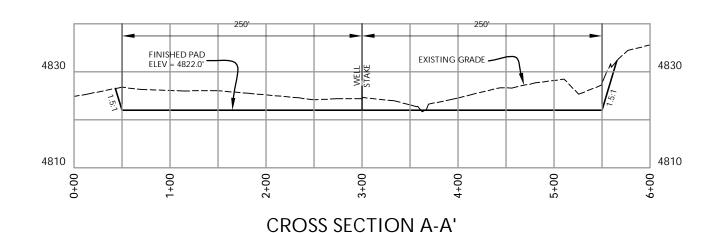


Timberline 38 WEST 100 NORTH

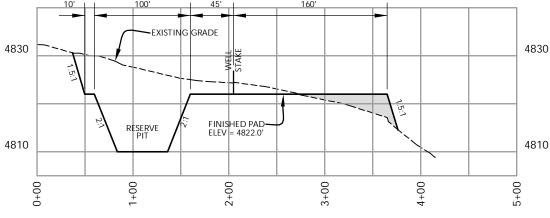
(435) 789-1365 Engineering & Land Surveying, Inc. VERNAL, UTAH 84078

APIWeIINo:43047507510000' k:vanadarko/2008_31_nBu__tri Bal_2/DWGS\NBU_SEC-15 TH









CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

KERR-MCGEE OIL & GAS ONSHORE L.P.

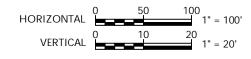
1099 18th Street - Denver, Colorado 80202

NBU 920-21G **WELL PAD - CROSS SECTIONS** 1998' FNL, 2319' FEL SW1/4 NE1/4, SECTION 21, T.9S., R.20E. S.L.B.&M., UINTAH COUNTY, UTAH

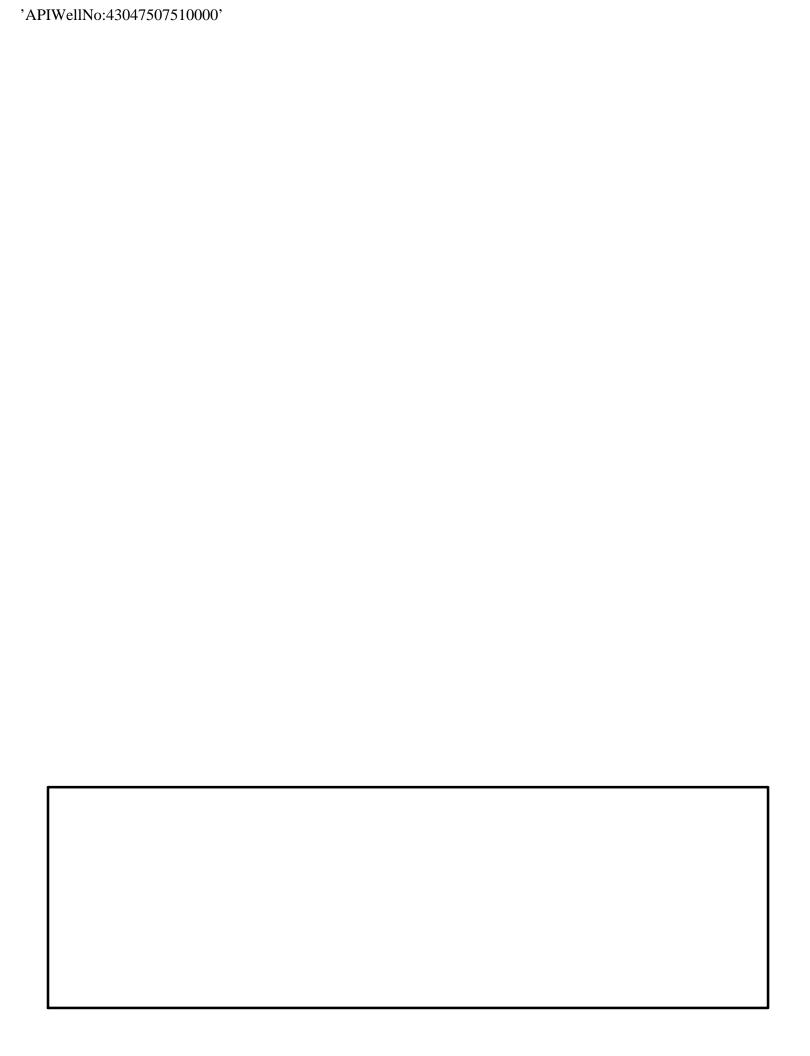


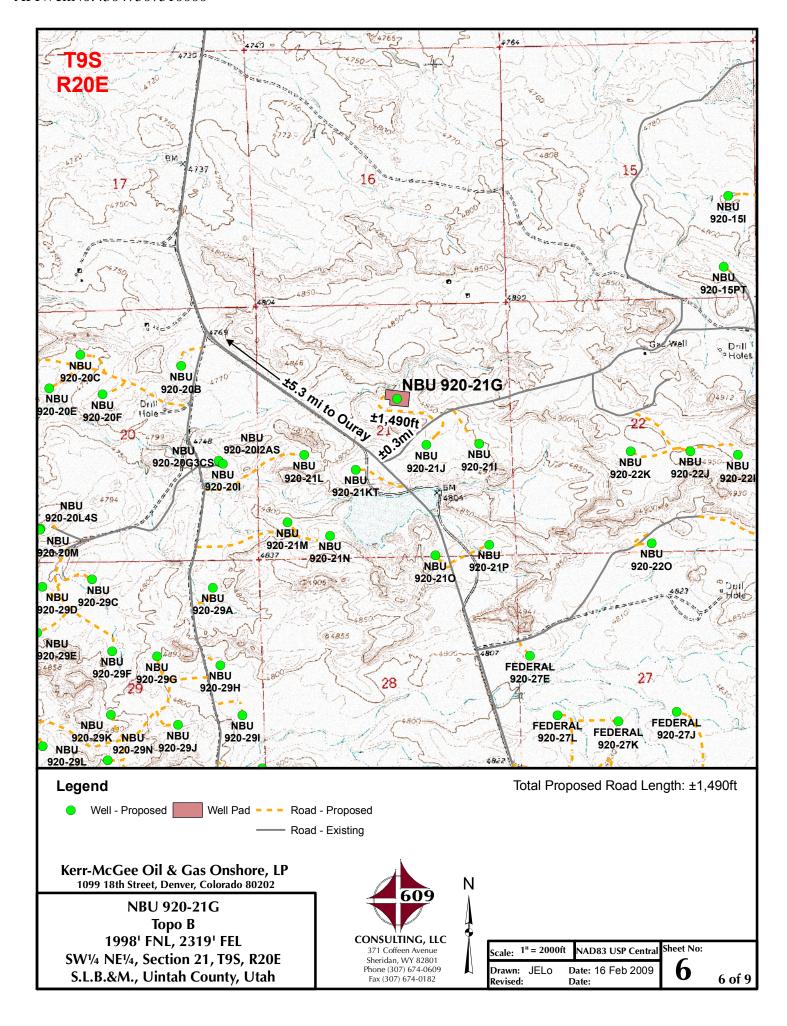
CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

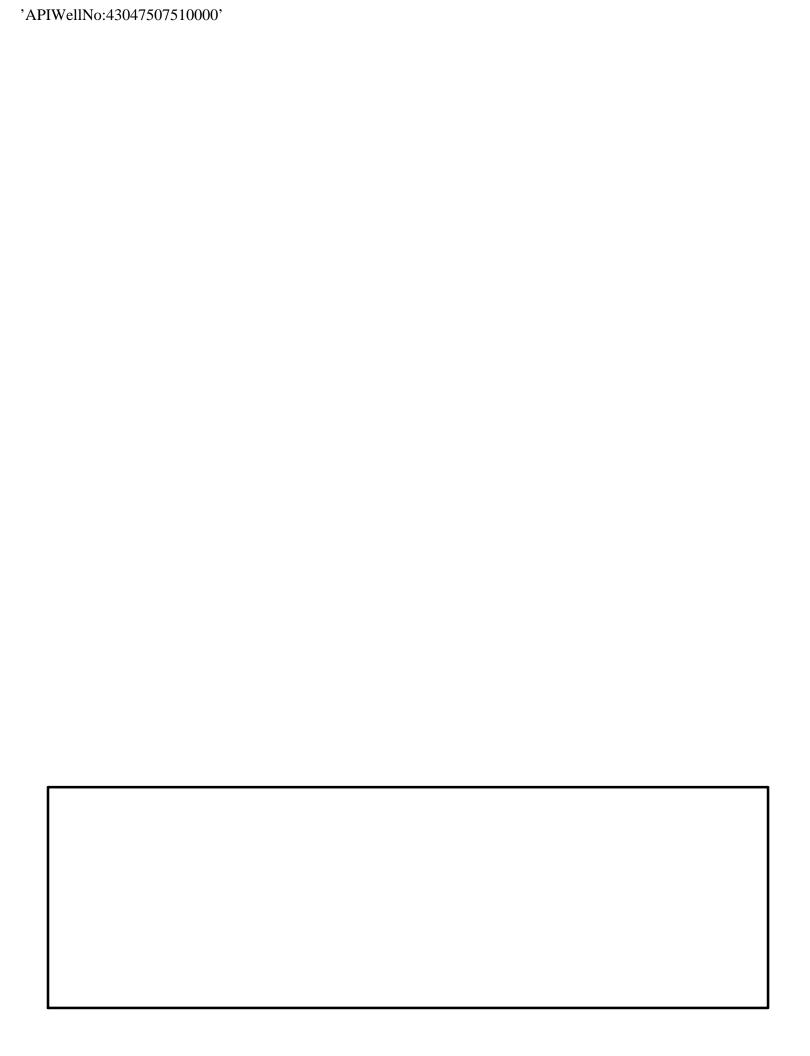
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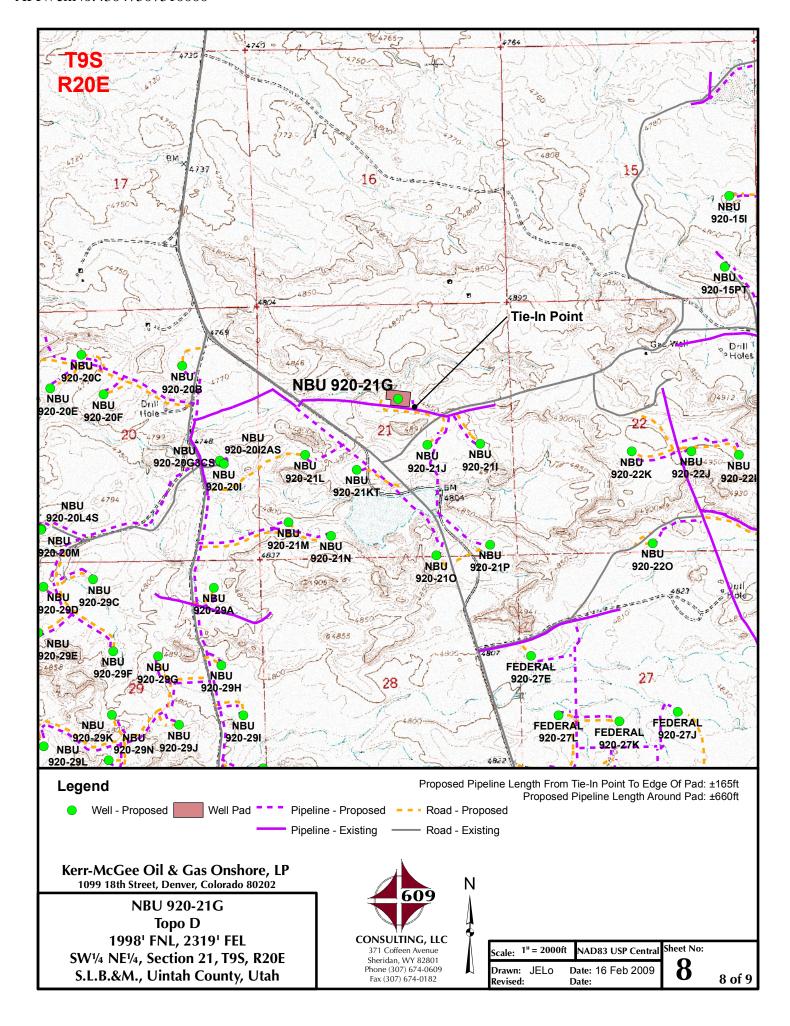


Timberline (435) 789-1365 Engineering & Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078









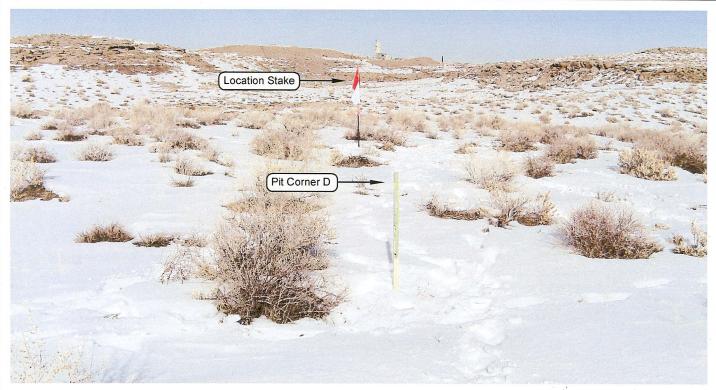


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

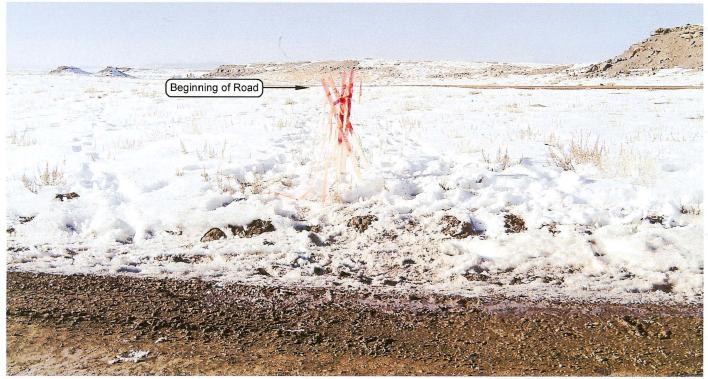


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

NBU 920-21G 1998' FNL, 2319' FEL SW¹₄ NE¹₄ OF SECTION 21, T9S, R20E, S.L.B.&M. UINTAH COUNTY, UTAH.



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

LOCATION	PHOTOS
----------	---------------

DATE TAKEN: 01-13-09 DATE DRAWN: 01-21-09

TAKEN BY: B.J.S.

DRAWN BY: K.K.O.

REVISED:

Timberline

209 NORTH 300 WEST

(435) 789-1365 Engineering & Land Surveying, Inc. VERNAL, UTAH 84078

SHEET OF 9

Kerr-McGee Oil & Gas Onshore, LP NBU 920-21G Section 21, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.3 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1,490 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 36.6 MILES IN A SOUTHERLY DIRECTION.

NBU 920-21G

Surface: 1,998' FNL 2,319' FEL (SW/4NE/4) Sec. 21 T9S R20E

> Uintah, Utah Mineral Lease: UTU 0144869

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in SW/4 NE/4 of Section 21 T9S R20E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on August 25, 2009.

A. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

B. Planned Access Roads:

See MDP for additional details on road construction.

Approximately $\pm 1,490$ ' (± 0.28 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

C. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

D. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately ± 825 ' (± 0.16 miles) of new pipeline is proposed for this well. Please refer to the attached Topo Map D for existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

E. <u>Location and Type of Water Supply</u>:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

F. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

I. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

NBU 920-21G

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

J. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

K. <u>Surface/Mineral Ownership:</u>

The well pad and access road are located on lands owned by:

Ute Indian Tribe PO Box 70 Fort Duchesne, Utah 84026 435-722-5141

The mineral ownership is listed below:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 435-781-4400

L. Other Information:

See MDP for additional details on Other Information.

'APIWellNo:43047507510000

M. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan Staff Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6007 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Kathy Schneebeck Dulnoan

September 17, 2009

Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS ONSHORE LP'S 88 PROPOSED WELL LOCATIONS (T9S, R20E, SECS. 1, 14, 15, 20, 21, 22, 23, 27, 29, 32, 33, 34) UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Indian Tribe
Uintah and Ouray Agency

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP 1368 South 1200 East Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

MOAC Report No. 08-318

March 4, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Paleontological Assessment for Anadarko Petroleum Corp.

NBU 920-21G Ouray Quadrangle Uintah County, Utah

Prepared for

Anadarko Petroleum Corp.
and
Ute Tribe
Uintah and Ouray Reservation

Prepared by

SWCA Environmental Consultants

SWCA #UT09-14314-47



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237 (303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report: GCI#74

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 920-21G, NBU 920-21I, NBU 920-21J, NBU 920-21KT, NBU 920-21L, NBU

920-21M, NBU 920-21N, NBU 920-21O, and NBU 920-21P.

Pipelines: Associated pipelines to proposed well pads

Access Roads: Associated access roads to proposed well pads

Location: Section 21, Township 9 South, Range 20 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Date: July 8-9, 2009

Observer(s): Grasslands Consulting, Inc. Biologists: Dan Hamilton, Matt Kelahan, and

Jonathan Sexauer. Technicians: Chad Johnson and Daniel Ortiz.

Weather: Partly cloudy, 75-85°F, 0-5 mph winds with no precipitation.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

September 18, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit Uintah

County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-50731	NBU	921-7F	Sec	07	T09S	R21E	2079	FNL	2869	FWL
43-047-50732	NBU	921-7L	Sec	07	T09S	R21E	1948	FSL	1196	FWL
43-047-50733	NBU	921-8D	Sec	80	T09S	R21E	0469	FNL	0652	FWL
43-047-50734	NBU	921-8N	Sec	08	T09S	R21E	0705	FSL	2033	FWL
43-047-50735	NBU	921-7D	Sec	07	T09S	R21E	0463	FNL	0180	FWL
43-047-50736	NBU	921-8C	Sec	80	T09S	R21E	0483	FNL	1729	FWL
43-047-50737	NBU	1022-9B4CS BHL				R22E R22E	-			
43-047-50738	NBU	1022-9C2DS BHL				R22E R22E				
43-047-50739	NBU	1022-9C3CS BHL				R22E R22E				
43-047-50740	NBU	1022-9C4DS BHL				R22E R22E				
43-047-50751	NBU	920-21G	Sec	21	T09S	R20E	1998	FNL	2319	FEL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

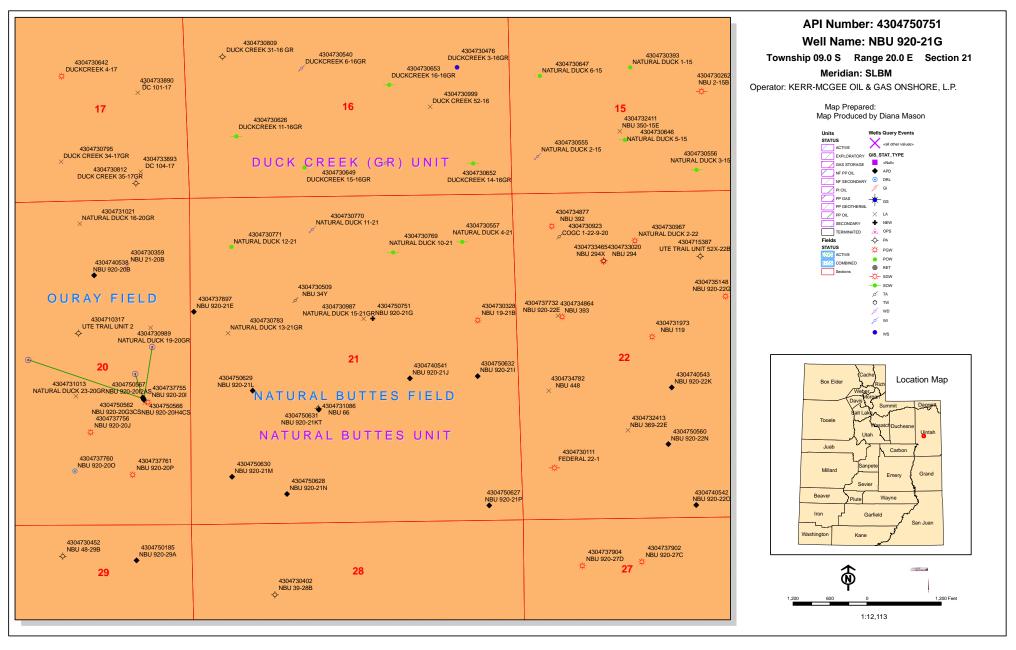
```
43-047-50752 NBU 1022-8L3CS Sec 08 T10S R22E 1761 FSL 0309 FWL Sec 08 T10S R22E 1330 FSL 0005 FWL 43-047-50753 NBU 1022-8M3DS Sec 08 T10S R22E 1765 FSL 0329 FWL Sec 08 T10S R22E 0245 FSL 0350 FWL Sec 08 T10S R22E 0245 FSL 0350 FWL BHL Sec 08 T10S R22E 0245 FSL 0350 FWL Sec 08 T10S R22E 0940 FSL 2635 FWL Sec 08 T10S R22E 0940 FSL 2635 FWL Sec 08 T10S R22E 0735 FSL 1700 FWL Sec 08 T10S R22E 0735 FSL 1700 FWL Sec 08 T10S R22E 1769 FSL 0348 FWL Sec 08 T10S R22E 1769 FSL 0460 FEL BHL Sec 35 T10S R22E 2170 FSL 0460 FEL Sec 35 T10S R22E 2170 FSL 0460 FEL
```

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-18-09

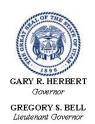


WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	9/17/2009		API NO. ASSIGNED:	43047507510000
WELL NAME:	NBU 920-21G			
OPERATOR:	KERR-MCGEE OIL & G	SAS ONSHORE, L.P. (N2995)	PHONE NUMBER:	720 929-6007
CONTACT:	Kathy Schneebeck-Du	Ilnoan		
PROPOSED LOCATION:	SWNE 21 090S 200E		Permit Tech Review:	
SURFACE:	1998 FNL 2319 FEL		Engineering Review:	
воттом:	1998 FNL 2319 FEL		Geology Review:	
COUNTY:	UINTAH			
LATITUDE:	40.02255		LONGITUDE:	-109.66981
UTM SURF EASTINGS:	613512.00		NORTHINGS:	4430897.00
FIELD NAME:	NATURAL BUTTES			
LEASE TYPE:	1 - Federal			
LEASE NUMBER:	UTU 0144869	PROPOSED PRODUCING FOR	RMATION(S): WASATCH-N	MESA VERDE
SURFACE OWNER:	2 - Indian		COALBED METHANE:	NO
RECEIVED AND/OR REVIE	:WED:	LOCATION AND SITIN	G:	
₽ PLAT		R649-2-3.		
Bond: FEDERAL - WYB	000291	Unit: NATURAL BUT	ΓES	
Potash		R649-3-2. Genera	ıl	
☑️ Oil Shale 190-5				
Oil Shale 190-3		R649-3-3. Except	ion	
Oil Shale 190-13		✓ Drilling Unit		
Water Permit: Permit	#43-8496	Board Cause No	Cause 173-14	
RDCC Review:		Effective Date:	12/2/1999	
Fee Surface Agreeme	ent	Siting: 460' fr u	bdry & uncomm. tract	
✓ Intent to Commingle		R649-3-11. Direct	tional Drill	
Commingling Approved	i			
Comments: Presite C	ompleted			

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 920-21G
API Well Number: 43047507510000
Lease Number: UTU 0144869
Surface Owner: INDIAN

Approval Date: 9/29/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284

API Well No: 43047507510000

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

Gil Hunt

Associate Director, Oil & Gas

Die Hunt

	STATE OF UTAH				FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING					E DESIGNATION AND SERIAL NUMBER: 144869		
SUNDRY NOTICES AND REPORTS ON WELLS				6. IF IN	NDIAN, ALLOTTEE OR TRIBE NAME: R		
	sals to drill new wells, significantly deepe igged wells, or to drill horizontal laterals.			7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 920-21G			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.				9. API NUMBER: 43047507510000		
3. ADDRESS OF OPERATOR:	·	ONE NI	JMBER:		D and POOL or WILDCAT:		
	treet, Suite 600, Denver, CO, 80217 377		720 929-6007 Ext		RAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1998 FNL 2319 FEL				COUNT			
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNE Section: 21	P, RANGE, MERIDIAN: Township: 09.0S Range: 20.0E Meridian	: S		STATE: UTAH			
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPORT,	OR OT	HER DATA		
TYPE OF SUBMISSION			TYPE OF ACTION				
	ACIDIZE		ALTER CASING		CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME		
9/30/2010	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	□ F	FRACTURE TREAT		NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	□ F	PLUG AND ABANDON		PLUG BACK		
	☐ PRODUCTION START OR RESUME	□ F	RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	SPUD REPORT		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON		
	☐ TUBING REPAIR		/ENT OR FLARE		WATER DISPOSAL		
☐ DRILLING REPORT	☐ WATER SHUTOFF		SI TA STATUS EXTENSION	1	APD EXTENSION		
Report Date:	☐ WILDCAT WELL DETERMINATION		OTHER	отн	ER:		
12. DESCRIBE PROPOSED OR CO	MPLETED OPERATIONS. Clearly show all pe	ertinen	t details including dates, depths, v	olumes,	etc.		
l .	as Onshore, L.P. (Kerr-McGeo APD for the maximum time all	•	. , .		Approved by the		
	with any questions and/or co				Jtah Division of		
				Oi	l, Gas and Mining		
				nto.	October 06, 2010		
			U	ate:_	00 04 11		
			В	y: <u> ₹</u>	od Hill		
					M		
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	2	TITLE Regulatory Analyst				
SIGNATURE N/A			DATE 9/30/2010				



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507510000

API: 43047507510000 **Well Name:** NBU 920-21G

Location: 1998 FNL 2319 FEL QTR SWNE SEC 21 TWNP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 9/29/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

require revi	sion. Following is a ch	ecklist of s	ome items r	elated to the	e application	on, which	should be ve	rified.
	ated on private land, h ed? 📗 Yes 🍺 No	as the own	ership chan	ged, if so, h	as the surf	ace agre	ement been	
	any wells been drilled requirements for this			oposed wel	l which wo	ould affec	t the spacing	or
	nere been any unit or o s proposed well?		-	n place that	could affe	ct the pe	rmitting or op	eration
	there been any change the proposed location			ncluding ow	nership, o	r rightof-	way, which c	ould
• Has tl	ne approved source of	water for (drilling chan	ged? 🔵 Y	es 📵 No	•		
	there been any physica je in plans from what v					oute whi	ch will require No	a a
• Is boı	nding still in place, wh	ch covers	this propose	d well? 🌘	Yes 🔵	No Utak	roved by the n Division of as and Minir	:
Signature:	Danielle Piernot	Date:	9/30/2010					
Title:	Regulatory Analyst Rep	resentina:	KERR-MCGE	E OIL & GAS	ONSHOR ₽ ₽	ite: C	October 06, 201	.0
				- 7		p 00	000	

Sundry Number: 17907 API Well Number: 43047507510000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0144869				
SUNDE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TR				
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepen exis igged wells, or to drill horizontal laterals. Use A	ting wells below current APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 920-21G		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047507510000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	PHONE N treet, Suite 600, Denver, CO, 80217 3779	TUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1998 FNL 2319 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSHI	IP, RANGE, MERIDIAN: Township: 09.0S Range: 20.0E Meridian: S		STATE: UTAH		
11. CHE	CK APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPORT	, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
Kerr-McGee Oil & G extension to this A	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF	espectfully requests and ed. Please contact the ents. Thank you.	NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Volumes, etc.		
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE Descriptions Applied II			
Gina Becker SIGNATURE N/A	720 929-6086	Regulatory Analyst II DATE 8/29/2011			
1 N / C		■ 0/43/4011			

Sundry Number: 17907 API Well Number: 43047507510000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507510000

API: 43047507510000 **Well Name:** NBU 920-21G

Location: 1998 FNL 2319 FEL QTR SWNE SEC 21 TWNP 090S RNG 200E MER S

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Date Original Permit Issued: 9/29/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

 If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No

Signature: Gina Becker Date: 8/29/2011

Title: Regulatory Analyst II Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-3 (August 2007)

RECEIVED

UNITED STATES SEP 3 2009
DEPARTMENT OF THE INTERIOR
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

UTU0144869

				-Tr -v	 	.,	-	
0	 C	Т	XIA			-	-	

6. If Indian, Allottee or Tribe Name

1a. Type of Work: DRILL REENTER	CONFIDENTIAL	7. If Unit or CA Agreement, Name and No. NATURAL BUTTES
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Otl		Lease Name and Well No. NBU 920-21G
KERR MUGEE OIL&GAS ONSHOREMAIP kathy.sc		9. API Well No. 43 047 50751
3a. Address PO BOX 173779 DENVER, CO 80217	3b. Phone No. (include area code) Ph: 720-929-6007 Fx: 720-929-7007	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
	40.02257 N Lat, 109.67057 W Lon	Sec 21 T9S R20E Mer SLB
At proposed prod. zone SWNE 1998FNL 2319FEL	the contract of the contract o	
14. Distance in miles and direction from nearest town or post APPROXIMATELY 6 MILES SOUTHEAST OF (office* DURAY, UT	12. County or Parish 13. State UINTAH UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well
APPROXIMATELY 1998' TO LEASE LINE	720.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
APPROXIMATELY 1000'	10744 MD 10744 TVD	WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 4824 GL	22. Approximate date work will start 10/12/2009	23. Estimated duration 60-90 DAYS
	24. Attachments	
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	tem Lands, the left 20 above). 5. Operator certification	ons unless covered by an existing bond on file (see
25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY SCHNEEBECK DULNOAN Ph:	720-929-6007 Date 09/17/2009
STAFF REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date MAR 0.8 201
Assistant Field Manager Lands & Mineral Resources	VERNAL FIELD OFFICE	MAR U O ZUL
Application approval does not warrant or settly the applicant of operations thereon. Conditions of approval, if any, are another than the applicant of the app	ONS OF APPROVA	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 States any false, fictitious or fraudulent statements or representat	make it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction.	o make to any department or agency of the United

Additional Operator Remarks (see next page)

Electronic Submission #74493 verified by the BLM Well Information SyNOTICE OF APPROVAL For KERR MCGEE OIL&GAS ONSHORE LP, sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN Con 109/18/2009 ()

MAR 27 2012



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore	Location:	SWNE, Sec. 21, T9S, R20E
Well No:	NBU 920-21G	Lease No:	UTU-0144869
API No:	43-047-50751	Agreement:	Natural Buttes Unit

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	_	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <u>ut_vn_opreport@blm.gov</u> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

SITE SPECIFIC COAs:

- Paint facilities "Shadow Gray."
- Monitor location by a permitted archaeologist during the construction process.
- Bury existing pipelines on access road.
- Re-route drainage around well pad from south to northwest.
- Construct low-water crossings on access road.
- Install culvert on access road when leaving main Blue Feather road.
- In accordance with the guidelines specified in the Guidelines for Raptor Protection from Human and Land Use disturbances, conduct a raptor survey prior to construction operations if such activities will take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations shall be according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines.
- Prior to construction operations, conduct a biological survey to determine the presence of Uinta Basin hookless cactus in accordance with guidelines specified in the USFWS Rare Plant Conservation Measures for Uintah Basin hookless cactus in consideration a 300-foot offset as specified in the GNB BO and BLM RMP ROD.

BIA Standard Conditions of Approval

- Soil erosion will be mitigated by reseeding all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.

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- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious
 weeds spread from the project area onto adjoining land, the company will also be responsible for
 their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nest are indentified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

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DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

A Gama Ray Log shall be run from TD to surface.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head: Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore: Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore: Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter: Variance granted for igniter due to there being no productive formations while drilling with air.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

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- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (1/41/4, Sec., Twn, Rng, and P.M.).
 - O Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
 be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
 reported verbally within 24 hours, followed by a written report within 15 days. "Other than
 Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on
 the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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• All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of
 a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval
 may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining JOHN R. BAZA Division Director

May 9, 2012

Jenn Hawkins Anadarko Petroleum Corporation 1099 18th Street, Suite 1800 Denver, CO 80202

Re:

APDs Rescinded for Anadarko Petroleum Corporation

Uintah County

Dear Ms. Hawkins:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective May 2, 2012.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

land the laser

cc:

Well File

Bureau of Land Management, Vernal

SITLA, Ed Bonner



4304750055	NBU 753-32E	4304740374	NBU 705-26E
4304750683	NBU 634-12EX	4304750123	NBU 920-12N
4304740346	NBU 921-15N1S	4304750143	NBU 920-13J
4304740347	NBU 921-14M3S	4304750751	NBU 920-21G
4304740348	NBU 921-22A1S	4304750756	NBU 1022-35I1CS
4304750089	NBU 921-1503T	4304750757	NBU 1022-35I4BS
4304740441	NBU 1022-25G2S	4304750758	NBU 1022-35J1CS
4304740442	NBU 1022-25G4S	4304750759	NBU 1022-35J4CS
4304740443	NBU 1022-25G3S	4304740380	NBU 920-13D
4304750852	FEDERAL 920-230	4304750155	FEDERAL 920-240
4304751026	NBU 921-12K	4304750769	NBU 1022-35K4CS
4304751027	NBU 921-12L	4304750770	NBU 1022-35N1CS
4304751028	NBU 921-12M	4304750771	NBU 1022-3501BS
4304751039	NBU 920-210	4304750772	NBU 1022-3501CS
4304750697	NBU 687-30E	4304750791	NBU 921-100
4304750811	NBU 699-25E	4304750792	NBU 921-10M
4304740153	NBU 1022-05JT	4304740439	NBU 1022-24P2S
4304740135	NBU 921-15MT	4304740440	NBU 1022-24P4S
4304750468	NBU 738-30E		
4304739369	NBU 922-180		
4304739372	NBU 922-20E		
4304740184	NBU 921-30FT		
4304740217	NBU 759-29E		
4304740218	NBU 737-30E		
4304750461	NBU 1022-2402S		
4304740267	NBU 704-26E		
4304740240	NBU 702-26E		
4304740241	NBU 703-26E		
4304750578	NBU 920-14B		
4304750579	NBU 920-14A		
4304740268	NBU 701-26E		
4304750627	NBU 920-21P		
4304750628	NBU 920-21N		
4304750682	NBU 921-12J		
4304750695	NBU 921-12N		
4304750111	NBU 921-11GT		
4304750112	NBU 921-11HT		
4304750118	NBU 740-30E		